**ORGANOCHLORINE PESTICIDES BY GAS CHROMATOGRAPHY**
**EPA 8081B REVISION 2 2007**

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

| Relevant Aspect of Standards | Method Reference | Y | N | N/A | Comments |
|---|---|---|---|---|---|
| *Records Examined:* SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____ | | | | | |
| Was all glassware scrupulously cleaned? | 4.4 | | | | |
| Were chemicals of sufficient purity used in all tests? | 7.1 | | | | |
| Were all stock standards replaced after one year? | 7.1 | | | | |
| Were all working standard solutions replaced within six months? | 7.1 | | | | |
| Were surrogates and standards stored at ≤6°C in the dark? | 7.1<br>7.10.3 | | | | |
| Were all solvents exchanged to n-hexane or isooctane prior to analysis? | 7.2 | | | | |
| Was each lot of solvent determined to be free of phthalates? | 7.2 | | | | |
| Were a minimum of five different calibration concentrations used? | 7.8 | | | | |
| Did calibrations include each target analyte? | 7.8 | | | | |
| Were surrogates added to every standard, sample, and QC? | 7.10 | | | | |
| Were extracts refrigerated under darkness and analyzed within 40 days? | 8.2 | | | | |
| Were calibration standards included after a minimum of 20 injections or every 12 hours to be within ±20% of initial calibration? | 9.3.1<br>11.5.2 | | | | |
| When internal standards were used, were internal standard areas never more than 50% different from the average internal area of the calibration standards? | 9.3.2 | | | | |
| Were samples reanalyzed when their retention times shifted by more than 30 seconds? | 9.3.2 | | | | |
| Were DDT and Endrin breakdowns confirmed to be less than 15% before samples were analyzed and every 12 hours? | 9.3.3.2 | | | | |
| Notes/Comments: | | | | | |

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| Were fractional schemes demonstrated to be reproducible if silica gel 3630 or Florisil 3620 cleanup was used? | 9.3.4 | | | | |
| **Initial Demonstration of Capability** | | | | | |
| Did the laboratory do an IDP with each sample preparation and determinative method combination prior to analyzing samples? | 9.4.1 | | | | |
| Were IDPs done whenever a new analyst was trained or significant changes to instrumentation were made? | 9.4.1 | | | | |
| Were the average recoveries and the standard deviations of the recoveries calculated for the IDPs? | 9.4.3 | | | | |
| **Quality Control** | | | | | |
| Were method blanks prepared each time samples were extracted, cleaned up, analyzed, and each time there was a change in reagents? | 9.5 | | | | |
| Were method blanks, matrix spikes, and duplicates carried through the same preparations and analyses as associated samples? | 9.5 | | | | |
| Were separate method blanks prepared from each set of reagents when reagents were changed during a preparation? | 9.5 | | | | |
| Were a method blank, a matrix spike, a duplicate, and a laboratory control sample included with each analytical batch? | 9.6 | | | | |
| If surrogates were used, were their recoveries compiled into historical control limits that were applied to surrogate evaluations? | 9.7 | | | | |
| **Procedure** | | | | | |
| Were the extraction methods selected appropriate for the target analytes and matrices? | 11.1 | | | | |
| Was every new sample type spiked to determine its matrix interference? | 11.1 | | | | |
| Were the extraction cleanup methods used appropriate? | 11.2 | | | | |
| Notes/Comments: | | | | | |